

U.S. Patent Application No. 10/727,530
Attorney's Docket No. 1030681-000600

1. (Original) A method of detecting a person from an image provided by a digital video camera, the method comprising:
 - (a) initializing parameters used for a user detection;
 - (b) determining a current mode from a face detection mode and a motion detection mode, said face detection mode and said motion detection mode being alternative modes relative to one another;
 - (c) when it is determined that the current mode is the face detection mode, performing a face detection on each of a plurality of image frames, and when a face is not detected even after a predetermined number of face detection trials, selecting a motion detection mode and going back to step (b); and
 - (d) when it is determined that the current mode is the motion detection mode, performing a motion detection on a predetermined number of image frames at a time, and when at least a predetermined number of motion detections are performed successfully within a predetermined period of time, going back to step (a).

21. (Currently Amended) An apparatus for detecting a person from an image provided by digital video camera, the apparatus comprising:

- [[a]] means for initializing parameters used for a user detection;
- [[a]] detection mode determination means for determining a current mode from a face detection mode and a motion detection mode, said face detection mode and said motion detection mode being alternative modes relative to one another;
- [[a]] face detection mode means for performing a face detection on each of a plurality of image frames when it is determined that the current mode is a face detection mode and selecting

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a motion detection mode when a face is not detected even after a predetermined number of face detection trials; and

[[a]] motion detection means for performing a motion detection on a predetermined number of image frames at a time when it is determined that the current mode is not the face detection mode and initializing the parameters when at least a predetermined number of motion detections are performed successfully within a predetermined period of time.